

OCTA 6300

Features

- 8-channel digital video multiplexer with 2-way audio and data
- Exceeds EIA RS-250C short haul
- 10-bit uncompressed video
- Advanced digital filtering
- No signal degradation over long distances
- Adjustment-free operation and installation
- Compact rack-mount or stand-alone
- SNM™ compatible

Description

Providing a compact combination of signal quality and ease of use, the OCTA 6350 can simultaneously transmit eight camera signals with two audio, four data and two telemetry signals over one single-mode optical fiber. Uncompressed 10-bit digitizing, oversampling and digital filtering ensure a very high transmission performance of the video channels, exceeding the requirements of the EIA RS-250C short haul specifications.

The wide operating temperature range of these units makes the OCTA 6350 system extremely well suited for


10-bit

environmentally harsh applications such as traffic monitoring, incident management, video surveillance in city centres, airport security etc.

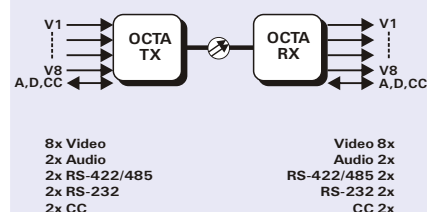
The OCTA 6350 comes as a twin Eurocard cassette, suitable for an MC 11 power-supply cabinet, or as a stand-alone unit (/SA version). LED indicators provide an instant overview of the system's status.

Smart Network Management (SNM™) provides status information of all transmission parameters.

Ordering information

Model	Description	Fiber type	Wavelength(s)	Budget	Housing	Managed
OCTA 6350 TX OCTA 6350 RX	8-ch digital video multiplexer, with audio and data 8-ch digital video demultiplexer, with audio and data	SM	1310/1550 nm	15 dB	rack-mount	SNM
OCTA 6350 TX/HP OCTA 63xx /SA	High-power 8-ch digital video mux, with audio/data Stand-alone version of rack-mount models	SM	1310/1550 nm	21 dB	rack-mount stand-alone	SNM SNM

Applications



Technical Specifications

Video

Number of channels	8
Video format	PAL/SECAM/NTSC
In-/output level	1 Vpp (± 3 dB)
DC restore (clamping)	On or off (selectable)
Bandwidth (-3 dB)	6 MHz
Sampling resolution	10-bit
Sampling rate	27 Msamples/s, 2x oversampled
Differential gain	< 1%
Differential phase	< 1°
Group delay	< 10 ns
SNR	> 67 dB (weighted)
Connector type	BNC 75 Ω (gold-plated centerpin)

Audio

Number of channels	2 (full-duplex)
Bandwidth	20 Hz to 20 kHz
Sampling resolution	16-bit
In-/output level	0 dBV (+6 dBV max)
Total harmonic distortion	< 0.25% at nominal level
SNR	> 75 dBA
Input impedance	> 50 k Ω or 600 Ω bal.
Output impedance	< 50 Ω bal.
Connector type	RJ45

Powering

Power consumption	< 12 W (2 A inrush)
Rack-mount units	MC 10 and MC 11 power-supply cabinets
Stand-alone units (/SA)	11 to 16 Vdc (PSA 12 DC/25 or PSR 12 DC)

Management

LED status indicators	
DC	Power-on indicator (green)
NV	No video on in- or output (red)
SYNC	Full-duplex link (green), local (red) or remote synchronization error (yellow)
D1, D3	RS-4xx data activity on input (red/green = 1/0)
D2, D4	RS-232 data activity on input (green/off = 1/0)
Network Management	SNM™ compatible
SNM™ variables	PS Voltages, module temperature, module status, optical levels, configuration, etc.

Environmental

Operating temperature	-40 to +74°C
Relative humidity	< 95% (no condensation)
MTBF	> 100,000 h
Safety & EMC	IEC/EN 60950-1, IEC/EN 60825 IEC/EN 61000, EN 50130-4, EN 50081-1, EN 55022, FCC part 15

Data

Number of channels	4 (full-duplex)
Data interface	2x RS-232 2x RS-422/485 (2- or 4-wire)
Interface support	Current loop / TTY / TTL/ Manchester/Bi-phase
Data format	Asynchronous, serial
Data rate	DC to 64 kb/s
Sampling rate	750 Ksamples/s
Connector type	RJ45

Contact Closure

Number of channels	2 (full-duplex)
Input	+5 V pull-up, 10 k Ω
Threshold	0.75 V
Output	Fail-safe, potential-free
Switch rating	2 A at 30 Vdc
Connector type	RJ45

Mechanical

Dimensions (hwxwd)	128 x 71 x 190 mm
Weight (approx.)	900 g
Housing	Rack-mount or stand-alone

Optical	OCTA 6350		OCTA 6350		
	TX	RX	TX/HP	RX	
Fiber type	1x SM		1x SM		
Optical return loss	> 45 dB		> 45 dB		
System budget	15 dB @ 1310 nm		21 dB @ 1310 nm		
Min. link loss	0 dB		6 dB		
Output power	> -3 dBm	> -7 dBm	> 3 dBm	> -7 dBm	
Output wavelength	1310 nm	1310 nm	1310 nm	1550 nm	
Input sensitivity	< -27 dBm	-3 to -18 dBm	< -27 dBm	-3 to -18 dBm	
Connector type	SC/APC		SC/APC		

